

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-157418

(43)Date of publication of application : 03.06.1994

(51)Int.CI.

C07C 69/74

C07C 67/317

// C07B 61/00

(21)Application number : 04-311714

(71)Applicant : DAI ICHI SEIYAKU CO LTD

(22)Date of filing : 20.11.1992

(72)Inventor : TAKAHASHI HISASHI

KIMURA YOICHI

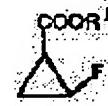
HAYANO TAKESHI

(54) REDUCING DEHALOGENATION PROCESS

(57)Abstract:

PURPOSE: To obtain a fluorocyclopropane compound, especially a 1,2-cis-2-fluorocyclopropanecarboxylic acid derivative by reducing a 1-halogeno-2-fluoro-1-cyclopropane-carboxylic acid derivative.

CONSTITUTION: The fluorodichloropropanes of formula III can be produced by reducing a 1-halogeno-2-fluoro-1-cyclopropanecarboxylic acid derivative of formula I (X is Cl, Br or I; COOR¹ is ester group) with a compound of formula II [M is alkali or alkaline earth metal; R² is H, cyano, acyloxy or alkoxy; (m) is 1-4; (n) is 0-3; m+n is 4]. The reaction is preferably carried out in the presence of dimethyl sulfoxide, sulfolane, etc. The compound of formula III is useful as a production raw material for pharmaceuticals and agricultural chemicals. The cis-compound is preferentially produced by this process independent of the steric configuration of the starting raw material. The objective product is easily produced in high yield.



LEGAL STATUS

[Date of request for examination] 12.05.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3326215

[Date of registration] 05.07.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's

[decision of rejection]

[Date of extinction of right]